


	<b>TECHNICAL INSTRUCTIONS</b>	<u>IT</u> : EN.CL.12
	<b>FIRST PURGE AND COOLING PROCESS</b>	<u>Page</u> : 1/6 <u>Date</u> : 05/2013 <u>Annule</u> : -
Rédacteur : RE Approbateur : FL	<b>LCO2 / LN2O TANK</b>	

## Phase 1 : Preliminary check

<p>1- Sécurité Rules :</p> <ul style="list-style-type: none"> <li>• Wear all required safety equipments for discharging.</li> <li>• Never open totally the valves.</li> <li>• Be aware of all gas related hazards</li> <li>• In case of Nitrous oxide, de sure that no grease is used and that the container is not located over asphalt.</li> </ul>	
<p>2- Before the loading, check that the quantity of product to load is not superior than the availability of the tank</p>	
<p>3- Check the correct state of the protecting safety covers located in the upper part and lower part of the machine.</p>	
<p>4- - Check the good state of the cover connection located on the vacuum pumping line.</p>	

<b>AIR FLOW</b>	<b>TECHNICAL INSTRUCTIONS</b>	<u>IT</u> : EN.CL.12
	<b>FIRST PURGE AND COOLING PROCESS</b>	<u>Page</u> : 2/6
Rédacteur : RE Approbateur : FL	<b>LCO2 / LN2O TANK</b>	<u>Date</u> : 05/2013
		<u>Annule</u> : -

5- **IMPORTANT**: Respect any manufactures' rules/best practice.

Take all the necessary time to operate

As long as the storage tank is building up the pressure (vaporization of introduced liquid) this means that the tank is still hot : keep proceeding with the cooling process

If this process is done too rapidly it may create important and dangerous reactions on all metal parts.



Rédacteur : RE  
 Approbateur : FL

**Phase 2 : Gas cleaning and purging of the tank**

6- Take off the caps of the filling connection. Bring the pressure back to the atmospheric pressure by opening the filling valve, than close the valve.



7- Take off the caps on the equilibrium gas connection and connect it to the gas phase of the container (HC7) with a flexible hose. Open the gas phase valve of the container (V19) and the gas equilibrium valve of your tank.



8- Build up the pressure of your system to 10 bar. Close the gas valve of the fix tank, **V19** and then purge your hose using **V33** or the purge gas valve of your tank.



# TECHNICAL INSTRUCTIONS

## FIRST PURGE AND COOLING PROCESS

### LCO2 / LN2O TANK

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Approbateur : FL

9- Purge the fix tank by lower down the pressure up to 7 bar (to eradicate the potential Moisture).


10- Disconnect the hose from the gas connection of the container (**HC7**) and connect it to the liquid connection (**HC2**). Open the gas valve of the tank in order to build up the pressure inside the flexible, then open the valve for the liquid phase of the container (**V17 & V35**).






11- Transfer the gas in order to reach 1/8 of the total fix tank capacity. Check the internal pressure of your tank.

12- Close all valves purge the hose using **V18**.



	<b>TECHNICAL INSTRUCTIONS</b>	<u>IT</u> : EN.CL.12
	<b>FIRST PURGE AND COOLING PROCESS</b>	<u>Page</u> : 5/6 <u>Date</u> : 05/2013 <u>Annule</u> : -
Rédacteur : RE Approbateur : FL	<b>LCO2 / LN2O TANK</b>	

<p>13- Disconnect the flexible hose</p>	
<p>14- Purge the fix tank pipes</p>	
<p>15- Purge and empty the fix tank from liquid gas by opening the liquid line valve and through the withdrawing system. Close all valves.</p>	
<p>16- The operation must be done several times until you reach the expected level of impurity in your tank. After this operation, your tank will be cool and ready for its first filling.</p>	
<p>17- To load the tank, refer to the AIRFLOW's unloading procedure for LCO2 &amp; LN2O (<b>EN.CL.01</b>)</p>	

**P&ID D'UN CONTENEUR AIR FLOW**

